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SUMMARY OF THE INVENTION

It was found that the cultivar of the present invention:

- (a) exhibits bright red flowers,
- (b) forms dark green foliage,
- (c) exhibits a good basal branching character and
- (d) exhibits a compact upright growth habit.

The new cultivar of the present invention can be compared to 'Arjuno' (United States Plant Patent # 10,485). In side by side comparisons with 'Arjuno', it is found that the new cultivar is more compact and has fewer flowers. A detailed comparison can be found in Table A.

BRIEF DESCRIPTION OF PHOTOGRAPH

The accompanying photograph shows as nearly true as it is reasonably possible to make the same in color illustrations of this type, typical flower and foliage characteristics of the new cultivar. The plants were grown in a greenhouse at West Chicago, Illinois, U.S.A.

DETAILED BOTANICAL DESCRIPTION

The cultivar 'Cassandra' has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the environment, such as temperature, light intensity, and day length.

The chart used in the identification of colors described herein is the R.H.S. Colour Chart of The Royal Horticultural Society, London, England. The color values were determined on January 4, 2001 between 9:00 and 9:30 am under natural daylight. The plants used for the following observations and measurements were produced from cuttings taken from stock plants and grown in West Chicago, Illinois in 10cm pots for sixteen (16) weeks. Plants were grown in a double poly carbonate covered greenhouse under conditions comparable to those used in commercial practice while utilizing a soilless growth medium and maintaining temperatures of approximately 82°F during the day and approximately 66°F during the night. Plants were exposed to three weeks of long days followed by 9 weeks of short days. Growth regulators were applied as follows: B nine, 3000 ppm at days 17 and 28 and 1500 ppm day 42.

Classification:

Botanical - *Kalanchoe blossfeldiana*, cultivar Cassandra

Parentage:

Male (pollen) parent - Proprietary *Kalanchoe blossfeldiana* selection #95012

Female (seed) parent - Proprietary *Kalanchoe blossfeldiana* selection #93226-14

Propagation:

Type cutting - Terminal tip

Time to Initiate Roots - Approximately 7-14 days with the shorter times generally being experienced in the summer and the longer times in the winter.

Time to develop roots - Approximately 21 days

Root Description - Fibrous, branching

Plant Description:

Habit of Growth - Moderately vigorous with good basal branching. A mature plant, at 16 weeks after the planting of an unrooted cutting, commonly measures approximately 11 cm in height and approximately 15.4 cm in width.

Branching habit - Typically forms one main stem 8 cm in length and 7 mm in diameter and 12 lateral branches approximately 5.6 cm in length and 3 mm in diameter.

Plant Form - Upright and mounded

Foliage - Form: Simple. Arrangement: Opposite. Shape: Ovate, with obtuse apex, attenuate base and crenate margin. Texture: Glabrous, succulent. Size of mature foliage: Approximately 7.8 cm in length and approximately 5.5 cm in width. Color of mature foliage: Upper surface closest to 147A lower surface between 147A and 147B. Petiole length: Approximately 9 mm. Petiole color: 144A.

Flower Description:

Flowering Habit - Freely flowering

Natural Flowering Season - Early January. Flowering time is dependent on temperature, light intensity and other growing conditions.

Flowering response time - Approximately 10 weeks

Inflorescence type - Dichasial cymes

Flowers Borne - Above foliage

Flower longevity - Approximately 7 days

Fragrance - None

Quantity of Flowers - Approximately 10 flowers on main stem and 8 flowers on each lateral branch

Flower buds - Shape: Elliptical, becoming elongated as it matures. Size just before opening: Length is approximately 8 mm, width is approximately 3 mm. Color: 39A.

Flower - Salverform. Corolla: Diameter is approximately 1.9 cm, depth is approximately 6 mm and aspect is flat. Corolla tube is approximately 1.1 cm in length and 3 mm in diameter.

Petals - Number: Average of 5. Shape: Ovate with cuspidate apex, rounded base. Approximate size: 9 mm in length, 6 mm in width. Aspect: Slightly convex. Texture: Glabrous.

Appearance: Somewhat iridescent.

Mature Flower Color - Upper surface of petals is closest to 45B fading to between 53C and 53D at senescence; lower surface of petals is closest to 45D with overlay of 37C.

Sepals - Number: Average of 5. Shape: Lanceolate with acute apex, entire margin. Size: 7 mm in length, 1 mm in width. Texture: Smooth. Color: Upper and lower surface: 144B

Peduncle - Approximately 2.7cm in length and 4 mm in diameter

Pedicel length - Approximately 5 mm

Reproductive Organs - Androecium: 8 stamens arranged in two groups of four - one group being shorter than the other. Anther shape is oblong and flat, length is approximately <1 mm. Pollen color is 6C. Gynoecium: Stigma shape is flat, appearance is crystalline, colorless and transparent. Style length is approximately 4 mm, color is 151D. Ovary is 4 celled, 7mm in length. Color is Between 144A and 144B.

Seed development: Seed development has not been observed.

Disease resistance: Resistance to known Kalanchoe pathogens has not been observed.

TABLE A

CHARACTERISTIC	'CASSANDRA'	'ARJUNO'
PLANT HEIGHT	11 cm	14 cm
NUMBER OF BRANCHES	12	14
APPROXIMATE NUMBERS OF FLOWERS PER PLANT	100	200

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